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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	)	Examiner:
H. DIETZ, et al.	)	
	)	Art Unit:
Serial No.: Unknown	)	
	)	Confirmation:
Filed: Herewith	)	
	)	
For: <b>REFRIGERATOR</b>	)	
<b>COMPRISING A</b>	)	
<b>REGENERATOR</b>	)	
	)	
Attorney Docket No.:	)	Cleveland, OH 44114
LYBZ 2 00089	)	December 28, 2004

ASSIGNMENT TRANSMITTAL LETTER

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please record the attached original document(s) or copy(ies) thereof.

1. Name of Party(ies) conveying an interest:

Holger DIETZ  
Heinz-Josef DUBBELFELD  
Jiri MELICHAR  
Axel PERSCH  
Mario PIETRANGELI  
Ernst SCHNACKE  
André SIEGEL  
Axel VEIT

2. Name of Party(ies) receiving an interest:

LEYBOLD VAKUUM GmbH  
Bonner Str. 498  
50968 Köln  
GERMANY

01/06/2005 LLANDGRA 00000053 10519737

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date indicated above and is addressed to: Commissioner For Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450.

*Hilary M. McNulty*  
By: Hilary M. McNULTY

-2-

## 3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name  
☐ Security Agreement ☐ Merger  
Other

## 4. This document is being filed together with a new application, the execution dates of which are:

December 2, 2004 by Holger DIETZ;  
December 2, 2004 by Heinz-Josef DUBBELFELD;  
December 2, 2004 by Jiri MELICHAR;  
December 2, 2004 by Axel PERSCH;  
December 2, 2004 by Mario PIETRANGELI;  
December 2, 2004 by Ernst SCHNACKE;  
December 2, 2004 by André SIEGEL; and,  
December 2, 2004 by Axel VEIT.

## 5. Name and address of Party to whom correspondence concerning this document should be mailed:

Thomas E. Kocovsky, Jr.  
Reg. No. 28,383  
FAY, SHARPE, FAGAN  
MINNICH & McKEE, LLP  
1100 Superior Avenue, Seventh Floor  
Cleveland, Ohio 44114-2518

6. One patent application is involved.7. Amount of fee enclosed or authorized to be charged:  
\$ 40.008. Deposit Account Number (attached duplicate copy of this form if paying by Deposit Account): 06-0308.

## 9. The Assignment shows it was signed on:

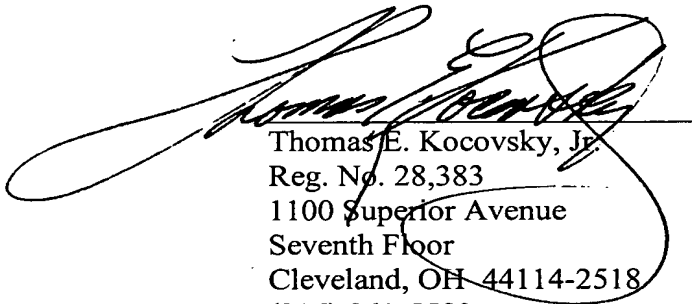
December 2, 2004 by Holger DIETZ;  
December 2, 2004 by Heinz-Josef DUBBELFELD;  
December 12, 2004 by Jiri MELICHAR;  
December 2, 2004 by Axel PERSCH;  
December 2, 2004 by Mario PIETRANGELI;  
December 2, 2004 by Ernst SCHNACKE;  
December 1, 2004 by André SIEGEL; and,  
December 2, 2004 by Axel VEIT.

10. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Total Number of pages including cover sheet (3 pages); and document (4 pages); Total: 7 pages.

Respectfully submitted,

FAY, SHARPE, FAGAN,  
MINNICH & McKEE, LLP



Thomas E. Kocovsky, Jr.  
Reg. No. 28,383  
1100 Superior Avenue  
Seventh Floor  
Cleveland, OH 44114-2518  
(216) 861-5582

**DECLARATION FOR PATENT APPLICATION**

As the below named inventors, we hereby declare that:

Our residences, post office addresses, and citizenships are as stated below next to our names.

We believe we are the original, joint, and first inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**REFRIGERATOR COMPRISING A REGENERATOR**

- ☒ the specification of which is attached hereto
- ☐ the specification of which was filed with the U.S. Patent and Trademark Office on \_\_\_\_\_ and accorded U.S. Application Serial No. \_\_\_\_\_.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, ' 1.56(a).

We hereby claim foreign priority benefits under Title 35, United States Code ' 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**Entry of PCT/EP03/04980; Filed May 13, 2003.**

**Priority German Patent Application No. DE 102 29 311.2;  
Filed June 29, 2002 in Germany.**

We hereby claim benefit under Title 35, United States Code ' 119(e) of any United States provisional applications listed below:

None

We hereby claim the benefit under Title 35, United States Code, ' 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, ' 112. We acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, ' 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

None

We hereby appoint all attorneys associated with Customer No. 027885.

Address all telephone calls to: Thomas E. Kocovsky, Jr., (216) 861-5582

Address all correspondence to:

FAY, SHARPE, FAGAN, MINNICH & McKEE, LLP  
1100 Superior Avenue, Seventh Floor  
Cleveland, Ohio 44114-2518

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Holger DIETZ

Inventor's signature: [Signature]

Date: 2-12-2004

Residence: Ratherstrasse 19, 51149 Köln GERMANY

Citizenship: German

Post Office Address: Ratherstrasse 19, 51149 Köln GERMANY

Full name of second joint inventor: Heinz-Josef DUBBELFELD

Inventor's signature: [Signature]

Date: 2-12-2004

Residence: Spielmannsgasse 10, 50321 Brühl GERMANY

Citizenship: German

Post Office Address: Spielmannsgasse 10, 50321 Brühl GERMANY

Full name of third joint inventor: Jiri MELICHAR

Inventor's signature: [Signature]

Date: [Blank]

Residence: Am Feldrain 74, 50999 Köln GERMANY

Citizenship: DE

Post Office Address: Am Feldrain 74, 50999 Köln GERMANY

Full name of fourth joint inventor: Axel PERSCH

Inventor's signature: [Signature]

Date: 2-12-2004

Residence: Berrenrathstrasse 394, 50937 Köln GERMANY

Citizenship: DE

Post Office Address: Berrenrathstrasse 394, 50937 Köln GERMANY

Full name of fifth joint inventor: Mario PIETRANGELI

Inventor's signature: [Signature]

Date: 2-12-2004

Residence: Frankenstrasse 34, 50354 Hürth GERMANY

Citizenship: IT

Post Office Address: Frankenstrasse 34, 50354 Hürth GERMANY

We hereby appoint all attorneys associated with Customer No. 027885.

Address all telephone calls to: Thomas E. Kocovsky, Jr., (216) 861-5582

Address all correspondence to:

FAY, SHARPE, FAGAN, MINNICH & McKEE, LLP  
1100 Superior Avenue, Seventh Floor  
Cleveland, Ohio 44114-2518

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Holger \_\_\_\_ DIETZ

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Ratherstrasse 19, 51149 Köln GERMANY

Citizenship: German

Post Office Address: Ratherstrasse 19, 51149 Köln GERMANY

Full name of second joint inventor: Heinz-Josef DUBBELFELD

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Spielmannsgasse 10, 50321 Brühl GERMANY

Citizenship: German

Post Office Address: Spielmannsgasse 10, 50321 Brühl GERMANY

3a Full name of third joint inventor: Jiri \_\_\_\_ MELICHAR

Inventor's signature: \_\_\_\_\_

Date: 2-12-2004

Residence: Am Feldrain 74, 50999 Köln GERMANY

Citizenship: DE

Post Office Address: Am Feldrain 74, 50999 Köln GERMANY

Full name of fourth joint inventor: Axel \_\_\_\_ PERSCH

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Berrenrathstrasse 394, 50937 Köln GERMANY

Citizenship: DE

Post Office Address: Berrenrathstrasse 394, 50937 Köln GERMANY

Full name of fifth joint inventor: Mario \_\_\_\_ PIETRANGELI

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Frankenstrasse 34, 50354 Hürth GERMANY

Citizenship: IT

Post Office Address: Frankenstrasse 34, 50354 Hürth GERMANY

62

Full name of sixth joint inventor: Ernst ~~SCHNACKE~~

Inventor's signature: *Ernst Schnacke* *DE*

Date: 2-12-2004

Residence: Merheimer Strasse 165, 50733 Köln GERMANY

Citizenship: DE

Post Office Address: Merheimer Strasse 165, 50733 Köln GERMANY

Full name of seventh joint inventor: André SIEGEL

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Steigstrasse 12, 88131 Linndau/Bodensee GERMANY

Citizenship: DE

Post Office Address: Steigstrasse 12, 88131 Linndau/Bodensee GERMANY

82

Full name of eighth joint inventor: Axel ~~VEIT~~

Inventor's signature: *Axel Veit*

Date: 2-12-2004 *DE*

Residence: Quellenweg 31, 50259 Pulheim GERMANY

Citizenship: DE

Post Office Address: Quellenweg 31, 50259 Pulheim GERMANY

Full name of sixth joint inventor: Ernst \_\_\_\_ SCHNACKE

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Merheimer Strasse 165, 50733 Köln GERMANY

Citizenship: DE

Post Office Address: Merheimer Strasse 165, 50733 Köln GERMANY

Full name of seventh joint inventor: André \_\_\_\_ SIEGEL

Inventor's signature: \_\_\_\_\_

Date: 2-12-2004

Residence: Steigstrasse 12, 88131 Linndau/Bodensee GERMANY

Citizenship: DE

Post Office Address: Steigstrasse 12, 88131 Linndau/Bodensee GERMANY

Full name of eighth joint inventor: Axel \_\_\_\_ VEIT

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Quellenweg 31, 50259 Pulheim GERMANY

Citizenship: DE

Post Office Address: Quellenweg 31, 50259 Pulheim GERMANY



**ASSIGNMENT**

Whereas, We, Holger DIETZ of Ratherstrasse 19, 51149 Köln GERMANY, Heinz-Josef DUBBELFELD of Spielmannsgasse 10, 50321 Brühl GERMANY, Jiri MELICHAR of Am Feldrain 74, 50999 Köln GERMANY, Axel PERSCH of Berrenrathstrasse 394, 50937 Köln GERMANY, Mario PIETRANGELI of Frankenstrasse 34, 50354 Hürth GERMANY, Ernst SCHNACKE of Merheimer Strasse 165, 50733 Köln GERMANY, André SIEGEL of Steigstrasse 12, 88131 Linndau/Bodensee GERMANY, and Axel VEIT of Quellenweg 31, 50259 Pulheim GERMANY, having invented certain new and useful improvements in:

**REFRIGERATOR COMPRISING A REGENERATOR**

- ☒ the specification of which is attached hereto
- ☐ the specification of which was filed with the U.S. Patent and Trademark Office on \_\_\_\_\_ and accorded U.S. Application Serial No. \_\_\_\_\_.

in consideration of One Euro (1 EUR) and other good and valuable consideration, receipt of which is hereby acknowledged, sell, assign, and transfer unto **LEYBOLD VAKUUM GmbH**, a Corporation of Germany, having a principal place of business at:

Bonner Str. 498, 50968 Köln, GERMANY

the full and exclusive right, title, and interest in and to the said invention in the United States and its territorial possessions, and in all foreign countries with all rights under the International Convention including the right to claim priority, and the entire and exclusive right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, reissues, continuations, and extensions thereof.

We therefore authorize and request the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the said:

**LEYBOLD VAKUUM GmbH**

for its sole use, and that of its successors, and assigns.

Signed at Cologne, Germany on this 2 day of  
December, 2004.

Friedel Wildt Prof.  
Witness  
Friedel Wildt Prof.  
Witness

Friedel Wildt - Prof.  
Witness  
Friedel Wildt Prof.  
Witness  
Friedel Wildt Prof.  
Witness

Friedel Wildt Prof.  
Witness  
Friedel Wildt Prof.  
Witness

Holger DIETZ  
Holger DIETZ  
Heinz-Josef DUBBELFELD  
Heinz-Josef DUBBELFELD

Jiri MELICHAR  
Jiri MELICHAR

Axel PERSCH  
Axel PERSCH  
Mario PIETRANGELI  
Mario PIETRANGELI

Ernst SCHNACKE  
Ernst SCHNACKE

André SIEGEL  
André SIEGEL  
Axel VEIT  
Axel VEIT

Signed at Cologne, Germany on this 12 day of  
December, 2004.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

*Friedel Dietz*

\_\_\_\_\_  
Witness

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Witness

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Holger DIETZ

\_\_\_\_\_  
Heinz-Josef DUBBELFELD

*Jiri Melichar*  
\_\_\_\_\_  
Jiri MELICHAR

\_\_\_\_\_  
Axel PERSCH

\_\_\_\_\_  
Mario PIETRANGELI

\_\_\_\_\_  
Ernst SCHNACKE

\_\_\_\_\_  
André SIEGEL

\_\_\_\_\_  
Axel VEIT

Signed at Cologne, Germany on this 1 day of  
December, 2004.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Holger DIETZ

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Heinz-Josef DUBBELFELD

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Witness

\_\_\_\_\_  
Jiri MELICHAR

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Witness

\_\_\_\_\_  
Axel PERSCH

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Mario PIETRANGELI

\_\_\_\_\_  
Witness

*Friedel Wild + Pj*  
\_\_\_\_\_  
Witness

\_\_\_\_\_  
Ernst SCHNACKE

*Andre Siegel*  
\_\_\_\_\_  
Andre SIEGEL

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Axel VEIT